

Title (en)  
Anthrax vaccine

Title (de)  
Anthrax-Impfstoff

Title (fr)  
Vaccin contre l'anthrax

Publication  
**EP 2363495 B1 20190724 (EN)**

Application  
**EP 11159904 A 20070530**

Priority  
• US 80953606 P 20060530  
• EP 07852377 A 20070530  
• US 2007012842 W 20070530

Abstract (en)  
[origin: WO2008027099A2] An optimized synthetic polynucleotide encoding a Bacillus anthracis protective antigen and an anthrax vaccine based on the encoded protective antigen. Furthermore, heterologous expression in a host Pseudomonas fluorescens bacteria of an optimized polynucleotide sequence encoding a Bacillus anthracis protective antigen.

IPC 8 full level  
**A61K 39/00** (2006.01); **C07K 14/32** (2006.01); **C12N 1/20** (2006.01); **C12N 15/01** (2006.01); **C12N 15/67** (2006.01); **C12N 15/78** (2006.01); **C12P 21/00** (2006.01)

CPC (source: EP US)  
**C07K 14/32** (2013.01 - EP US); **C12N 15/67** (2013.01 - EP US); **C12N 15/78** (2013.01 - EP US); **C12P 21/00** (2013.01 - EP US); **A61K 39/00** (2013.01 - EP US)

Citation (examination)  
LAIRD ET AL: "Production and purification of Bacillus anthracis protective antigen from Escherichia coli", PROTEIN EXPRESSION AND PURIFICATION, vol. 38, 2004, pages 145 - 152, XP004599059

Cited by  
US8569015B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2008027099 A2 20080306; WO 2008027099 A3 20081218; WO 2008027099 A9 20080424**; AT E523206 T1 20110915; CN 101495644 A 20090729; CN 101495644 B 20121107; EP 2021490 A2 20090211; EP 2021490 B1 20110907; EP 2363495 A1 20110907; EP 2363495 B1 20190724; US 2008058262 A1 20080306; US 8569015 B2 20131029

DOCDB simple family (application)  
**US 2007012842 W 20070530**; AT 07852377 T 20070530; CN 200780019821 A 20070530; EP 07852377 A 20070530; EP 11159904 A 20070530; US 80910007 A 20070530